

**FIRE DEPARTMENT MECHANIC  
STUDY GUIDE**

A written examination for the class of **FIRE DEPARTMENT MECHANIC** to be administered in **BOSSIER CITY** on **OCTOBER 23, 2007**, will consist of approximately 100 multiple-choice questions. The examination will test your knowledge in the following subject areas:

<b>SUBJECT AREA/KNOWLEDGE</b>	<b>APPROXIMATE % OF EXAM</b>
<b>STEERING, SUSPENSION, AND BRAKE SYSTEMS</b>  Knowledge of steering, suspension, and brake systems sufficient to perform maintenance, make repairs, or adjust the systems when needed.	8.0%
<b>COOLING SYSTEM</b>  Knowledge of air cooling systems sufficient to perform maintenance and repair when needed.	5.0%
<b>DRIVE TRAIN/LUBRICATING/ELECTRICAL/EXHAUST AND EMISSIONS /FUEL SYSTEMS</b>  Knowledge of drive train, lubricating, electrical, exhaust and emissions, and fuel systems sufficient to perform maintenance, repairs or adjustments to the system when needed.	22.0%
<b>ENGINE MECHANICS</b>  Knowledge of gasoline and diesel engines sufficient to perform diagnosis of mechanical problems and to perform maintenance and repair.	8.0%
<b>GENERAL AUTO MAINTENANCE/AUTO MAINTENANCE INSTRUMENTS</b>  Knowledge of automobiles and automotive maintenance instruments sufficient to determine what repairs are needed and how to perform these repairs and other general maintenance tasks.	22.0%
<b>INSPECTION, MAINTENANCE, TESTING &amp; REPAIR OF PORTABLE EQUIPMENT</b>  Knowledge of equipment and accessories sufficient to perform maintenance and repairs, including verifying that equipment is tested and meets applicable standards.	9.0%

SUBJECT AREA/KNOWLEDGE	APPROXIMATE % OF EXAM
<b>MANAGING EQUIPMENT/PROPERTY/SUPPLIES</b>  Knowledge of the maintenance of equipment and supplies, including inventory control, verifying that equipment is tested and meets applicable standards; and developing specifications for equipment.	13.0%
<b>PUBLIC RELATIONS</b>  Knowledge of effective public relations practices which foster a positive public image of the department through contact with the public.	5.0%
<b>TRAINING</b>  Knowledge of the practices and procedures necessary to provide on the job training.	8.0%

### REFERENCE LIST

While the entire list of reference material will be useful to you in your preparation for the upcoming examination, the **majority** of test questions are sourced from those references listed under the Primary List.

### PRIMARY REFERENCE MATERIAL

**MODERN AUTOMOTIVE TECHNOLOGY**, James E. Duffy, The Goodheart-Willcox Co., Inc., 2004.

**EFFECTIVE SUPERVISORY PRACTICES**, International City Management Association (ICMA), 1120 G Street, N.W., Washington, D.C. 20005, 4th ed., 2005.

**NOTE: Obtain through LSU Firemen Training Program or IFSTA Fire Protection Publications.**

**INTERNATIONAL FIRE SERVICE TRAINING ASSOCIATION (IFSTA)/ FIRE PROTECTION PUBLICATIONS** (Training Manuals):  
Principles of Vehicle Extrication, 2nd ed., 2000.

The local civil service board should make this study guide available to all applicants in whatever manner the board deems appropriate.

While there are no provisions requiring this office to provide study guides for any competitive or promotional examinations, such material will be provided as a service to assist applicants in preparing for an examination. The State Examiner's office has no control whatsoever over the local availability of reference material (mentioned in the study guides), nor do we feel constrained to limit examination questions to only that material which is available locally. Examination content, weighting of subject areas, and length of examination, may vary with each administration of an examination to reflect any updated job analysis information. Percentages and numerical estimations are provided as approximations.